

**Animal-Free Recombinant Human Flt3-Ligand**  
**Catalog # PBG10543****Specification**

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**Animal-Free Recombinant Human Flt3-Ligand - Product Information****Animal-Free Recombinant Human Flt3-Ligand - Additional Information****Description**

Flt3-Ligand is a growth factor that regulates proliferation of early hematopoietic cells. Flt3-Ligand binds to cells expressing the tyrosine kinase receptor Flt3. Flt3-Ligand, by itself does not stimulate proliferation of early hematopoietic cells, but synergizes with other CSFs and interleukins to induce growth and differentiation. Unlike SCF, Flt3-Ligand exerts no activity on mast cells. Multiple isoforms of Flt3-Ligand have been identified. The predominant biologically active form is anchored to the cell surface as the extracellular domain of a transmembrane protein (209 a.a.). The membrane-bound isoform can be proteolytically cleaved to generate a biologically active soluble isoform. Recombinant human Flt3-Ligand is a soluble 17.6 kDa protein consisting of 155 amino acid residues.

**Biological Activity**

The  $ED_{50}$  was determined by the dose-dependent stimulation of the proliferation of human AML5 cells is  $\leq 1.0$  ng/ml, corresponding to a specific activity of  $\geq 1 \times 10^6$  units/mg.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is  $<0.1$  ng/  $\mu$ g of protein ( $<1$  EU/  $\mu$ g).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Animal-Free Recombinant Human Flt3-Ligand is for research use only and not for use in diagnostic or therapeutic procedures.

**Animal-Free Recombinant Human Flt3-Ligand - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Animal-Free Recombinant Human Flt3-Ligand - Images**